PATENT COOPERATION TREATY

INTERNATIONALSEARCHREPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference

Applicant's or agent's file reference PCT7538-7539	FOR FURTHER ACTION a	see Form PCT/ISA/220 s well as, where applicable, item 5 below.
International application No. PCT/JP 2004 / 018073	International filing date (day/month/yea	(Earliest) Priority Date (day/month/year) 02.12.2003
Applicant SEMICONDUCTOR ENER	RGY LABORATORY CO.	, LTD.
This international search report has been proto to Article 18. A copy is being transmitted	repared by this International Searching A d to the International Bureau.	uthority and is transmitted to the applicant according
This international search report consists of the last	of a total of 3 sheets. copy of each prior art document cited in	this report.
language in which it was filed, unl	ess otherwise indicated under this item. h was carried out on the basis of a transl	on the basis of the international application in the lation of the international application furnished to
	,	ed in the international application, see Box No. I.
 3. Unity of invention is lacking 4. With regard to the title, The text is approved as submodel 		RECEIVED TOOS
		105 M. 12
	, according to Rule 38.2(b), by this Auth	nority as it appears in Box No. IV. The applicant search report, submit comments to this Authority.
6. With regard to the drawings,		
1 = =	oplicant. thority, because the applicant failed to s thority, because this figure better charac ublished with the abstract.	suggest a figure.

INTERNIONALSEARCHREPORT

Inte. onal application No. PCT/JP2004/018073

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A. CLA	SSIFICATIONOFSUBJECTMATTER	•	-	
Int.Cl 7	09F9/30	•		
According t	o International Patent Classification (IPC) or to both n	ational classification and	d IPC	•
	DS SEARCHED	•		
	ocumentation searched (classification system followed by			_
Int.Cl ⁷	309F9/00-40, H05B33/00-28, G02F1/	1343-1368		•
Documentat	ion searched other than minimum documentation to the	extent that such documer	nts are included in t	he fields searched
Applicat:	Utility Model Gazette 1922-1996, Japane ions 1971-2005, Japanese Registered Utilag the Utility Model 1996-2005	se Publication of ity Model Gazette		lity Model apanese Gazette
Electronic da	ata base consulted during the international search (name	of data base and, where pr	racticable, search te	rms used)
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C. DOCU	MENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where a	ppropriate, of the releva	nt passages	Relevant to claim No.
A	JP 10-209463 A			1-32
	(Matsushita Denkisangyou C	O., LTD.)		1-32
	1998.08.07, whole document		,	*
	(Family:none)			
	TD 06 160504 -			
A	JP 06-163584 A			1-32
	(Nihon Itagarasu CO., LTD. 1994.06.10, whole document	,		·
	(Family:none)			
A	JP 03-085530 A			1-32
,	(Sharp CO., LTD.)			
	1991.04.10, whole document			
	(Family:none)			
•	·			
	-			
√ Furthe	r documents are listed in the continuation of Box C.	See patent fa	amily annex.	
* Special categories of cited documents: "T" later document published after the international filing date or				
"A" document defining the general state of the art which is not considered to be of particular relevance "A" document defining the general state of the art which is not considered to be of particular relevance "A" document defining the general state of the art which is not understand the principle or theory underlying the invention				
"E" earlier application or patent but published on or after the inter- national filing date "L" document which may throw doubts on priority claim(s) or which				
is cited	to establish the publication date of another citation or other reason (as specified)	"Y" document of parti	icular relevance; the	claimed invention cannot
"O" docume	nt referring to an oral disclosure, use, exhibition or other	be considered to in combined with	nvolve an inventive one or more other	step when the document is r such documents, such
means "P" docume than the	nt published prior to the international filing date but later priority date claimed	combination being	g obvious to a person or of the same paten	on skilled in the art
	ctual completion of the international search	Date of mailing of the	international search	h report
17.03.2005				
Name and mailing address of the ISA/IP Authorized officer				
•	Japan Patent Office	Kosuke Mir	nami	2M 9306
3-4-3, Kası	umigaseki, Chiyoda-ku, Tokyo 100-8915, Japan	Telephone No. +81-3	3-3581-1101 E	xt. 3274

INTERI IONALSEARCHREPORT

Intel lonal application No. PCT/JP2004/018073

itegory*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
A	JP 07-333648 A (Mitsubishi Denki CO., LTD.) 1995.12.22, whole document (Family:none)	1-32	
A	JP 2001-250777 A (Semiconductor Energy Laboratory CO., LTD.), 2001.09.14, Paragraph[0079], Figure 8 & AU 2231201 A & CN 1437761 A & TW 473800 B & US 6787407 B2	1-32	
A	& WO0148797 A1 JP 2002-057341 A (Mitsubishi Denki CO.,LTD.) 2002.02.22, Figure 2 & CN 1338658 A & EP 1180716 A & TW 544906 B & US 6587165 B2	1-32	
A	JP 2003-318192 A (Seiko Epson CO.,LTD.) 2003.11.07, whole document & US 2003219934 A1	1-32	
A	JP 11-251259 A (Seiko Epson CO.,LTD.) 1999.09.17, whole document (Family:none)	1-32	

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- 1. [Where originally there were 48 claims and after amendment of some claims there are 51]: "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- 2. [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- 3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
 "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]:
 "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under Article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

If a demand for international preliminary examination is made, the written opinion of the International Searching Authority will, except in certain cases where the Authority which established the written opinion does not also act as International Preliminary Examining Authority, be considered to be a written opinion of the International Preliminary Examining Authority. In this case, the applicant is invited to submit to the International Preliminary Examining Authority a written reply together, where appropriate, with amendments before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later (Rule 43bis.1(c)).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see the PCT Applicant's Guide, Volume II.